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"""
    Ken Amamori
    CS4375 - OS
    Python Warm UP
"""

def response(cur, inp):
    print("System:\t", end="")
    if cur == 0:
        if inp == "female":
            print("How excellent! Are you a CS major?")
        elif inp == "male":
            print("Me too. Are you CS major?")
        else:
            print("Great! Anyways, are you CS major?")
    elif cur == 1:
        if inp == "no":
            print("Too bad. Anyway, what's an animal you like, and two you don't?")
        elif inp == "yes":
            print("Excellent, I am too. What's an animal you don't like, and two you don't?")
        else:
            print("Cool! By the way, what's an animal you like, and two you don't?")
    else:
        print(inp[0].strip(), "awesome, but i hate", inp[-1].strip(), "too. Bye for now.")
    return cur+1

def importFromFile():
    print("System:\tHello, are you male or female?")
    f = open('testFile3.txt', 'r')
    lines = f.readlines()
    c = 0
    for line in lines:
        print("User:\t", end="")
        if c == 2:
            print(line)
            response(c, line.split(','))
        else:
            print(line, end="")
            response(c, line)
        c+=1

def userEntering():
    cur = 0
    print("System:\tHello, are you male or female?")
    while cur<3:
        print("User:\t", end="")
        inp = input()
        if "," in inp:
            inp = inp.split(',')
        cur = response(cur, inp)

def main():
    print("Hello, welcome to chatbot program.")
    checker = True
    while(checker):
        print("Are you importing messages from file?")
```

Python warm-up

```
print("Enter only either \"yes\" or \"no\".")
message = input()
if message == "yes":
    importFromFile()
    checker = False
elif message == "no":
    userEntering()
    checker = False
else:
    print("Please enter in the correct format...\n")

if __name__ == '__main__':
    main()
```

This python file is to complete python warm-up problem. It is a chatbot and depends on user input, the system responses.

- The initial point of this file is the main() function. In this function, the system asks the user if the user wants to use it in keyboard I/O mode or input from the text file. If the input format is incorrect, it will ask again until the answer is the correct format. Whether the user input, it is called to separate function, importFromFile() or userEntering().
- importFromFile() does not get any parameter and does not return anything. In this function, it reads text from the file line by line and passes the value to response() function. c value keeps track of in which chat is going to happen, so that when c=2, we know that it requires to split for two keywords.
- userEntering() function does not get any parameter nor return. This function gets input from the keyboard and passes the value to response() function. cur data keep track of which phase of the message is going on so that the program can split the words to print out correctly.
- Response() method receives cur which keeps track of which phase of messaging is going on and inp which the input or user's message. By using cur value, the program can know what type of message is being taken, and with several, if statement using inp can get the specific message back.

Python warm-up

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```
Kens-MBP:pythonWarmUp ken$ python3 pythonWarmUp.py
Hello, welcome to chatbot program.
Are you importing messages from file?
Enter only either "yes" or "no".
yes
System: Hello, are you male or female?
User:   male
System: Great! Anyways, are you CS major?
User:   yes
System: Cool! By the way, what's an animal you like, and two you don't?
User:   armadillos, ants, and lizards
System: armadillos awesome, but i hate and lizards too. Bye for now.
```

fileText1

```
Kens-MBP:pythonWarmUp ken$ python3 pythonWarmUp.py
Hello, welcome to chatbot program.
Are you importing messages from file?
Enter only either "yes" or "no".
yes
System: Hello, are you male or female?
User:   female
System: Great! Anyways, are you CS major?
User:   no
System: Cool! By the way, what's an animal you like, and two you don't?
User:   crows, minnows, geckos
System: crows awesome, but i hate geckos too. Bye for now.
```

fileText2

```
Kens-MBP:pythonWarmUp ken$ python3 pythonWarmUp.py
Hello, welcome to chatbot program.
Are you importing messages from file?
Enter only either "yes" or "no".
yes
System: Hello, are you male or female?
User:   AL, neither male or female
System: Great! Anyways, are you CS major?
User:   electrical engineering
System: Cool! By the way, what's an animal you like, and two you don't?
User:   bye goofball
System: bye goofball awesome, but i hate bye goofball too. Bye for now.
```

fileText3

```
Kens-MBP:pythonWarmUp ken$ python3 pythonWarmUp.py
Hello, welcome to chatbot program.
Are you importing messages from file?
Enter only either "yes" or "no".
no
System: Hello, are you male or female?
User:   male
System: Me too. Are you CS major?
User:   yes
System: Excellent, I am too. What's an animal you don't like, and two you don't?
User:   dogs, cats
System: dogs awesome, but i hate cats too. Bye for now.
```

User input